|                 | Index of Claims |          |                     |                |              |             |                     |           |              |          |                        |                    | Application No.    |          |              |                 |           |           |      |              |                 |                 | Applicant(s) |    |              |          |          |          |           |        |  |
|-----------------|-----------------|----------|---------------------|----------------|--------------|-------------|---------------------|-----------|--------------|----------|------------------------|--------------------|--------------------|----------|--------------|-----------------|-----------|-----------|------|--------------|-----------------|-----------------|--------------|----|--------------|----------|----------|----------|-----------|--------|--|
| Index of Claims |                 |          |                     |                |              |             |                     |           |              | OC       | 09/238,163             |                    |                    |          |              |                 |           |           |      |              |                 |                 |              |    |              |          |          |          |           |        |  |
|                 |                 |          |                     |                |              |             |                     |           |              | ł        |                        | cami               |                    |          |              |                 | -         |           |      | -            | SUMIYAMA ET AL. |                 |              |    |              |          |          |          |           |        |  |
|                 |                 |          |                     |                |              |             |                     |           |              |          |                        |                    |                    |          |              |                 |           |           |      |              |                 |                 |              |    |              |          |          |          |           |        |  |
|                 |                 |          | 1000                | 1 (1111) 4123- | صف داننا     |             |                     | IW IM     | <del></del>  |          |                        | _                  | Joseph R. Pokrzywa |          |              |                 |           |           |      |              |                 |                 | 2622         |    |              |          |          |          |           |        |  |
|                 | •               |          |                     |                | $\neg$       | ſ           |                     |           |              |          |                        |                    | -11                | $\neg$   | Г            | _               |           |           | _    |              | ۱.              | $\Box$          |              |    | _            |          |          | 1        |           |        |  |
|                 |                 |          | 1                   | Reject         | ted          | 1           | -                   | •         | (Throu<br>Ca | ancel    | un<br>Ner              | 4<br>1 <b>9</b> 1: | al)                |          | N            | N               | łon       | ı-El      | 8C   | ted          | l               | A               |              | Ąŗ | pea          | al       |          |          |           |        |  |
|                 |                 |          | H                   |                | $\dashv$     |             | H                   |           |              |          |                        |                    | —                  | $\dashv$ | $\vdash$     | ╁╴              |           |           | -    |              | İ               | H               |              |    | —            | _        |          | ł        |           |        |  |
|                 |                 |          | =                   | Allowed        |              |             | +                   | ı         | Re           | estric   | :ter                   | d                  |                    |          | ı            | ) tr            | nte       | rfei      | rer  | 100          | l               | 0               |              | ОЫ | ect          | ed       |          |          |           |        |  |
|                 |                 |          | <u>니</u>            |                |              | '           | <u> </u>            | _         |              |          |                        | _                  | _                  |          | _            | <br>            | _         | _         |      | _            | ł               | ш               |              |    |              |          |          | }        |           |        |  |
|                 | Claim           |          | Date                |                |              | <del></del> |                     | Claim     |              | _        | <u> </u>               | Da                 | Date               |          |              | $\square$       |           | Claim     |      | 匚            | _               |                 | Dat          | e  | _            | _        |          |          |           |        |  |
|                 | ᅙ               | 屋        | 5                   | <b>8</b>       | 11           |             |                     |           | <del>-</del> | nat      |                        |                    | .                  |          |              |                 |           |           |      | <sub>=</sub> | <u>e</u>        |                 |              |    |              |          |          |          |           | ĺ      |  |
|                 | FInal           | Original | Ø                   |                | $  \cdot  $  |             |                     |           | Final        | Original |                        |                    |                    |          |              |                 |           |           |      | Final        | Original        |                 | ŀ            |    |              |          |          |          |           |        |  |
|                 | H               | (1)      | U                   | 朱阳             | ╁┼           | ┵           | $oldsymbol{\sqcup}$ | _         | <u> </u>     | L        | $\sqcup$               | Н                  | $\dashv$           | +        | 1            | $\sqcup$        | L         | Ц         |      | <u></u>      |                 | Ц               | 4            | 丰  | ot           | L        | Ŀ        | Ц        | Ш         |        |  |
|                 |                 | 2        |                     |                | ++           | +-          | H                   | $\dashv$  | $\vdash$     | 51<br>52 | H                      | $\dashv$           | +                  | 十        | ╀            | $\dashv$        | H         | Н         |      | $\vdash$     | 101<br>102      | $\vdash$        | +            | +  | +            | ╀        | $\vdash$ | Н        | $\vdash$  | ł      |  |
|                 |                 | 2        |                     | 7              | $\prod$      | 卫           | 口                   | $\Box$    |              | 53       |                        | 口                  | 二                  | 工        | 丰            | $\Box$          |           | 口         |      |              | 103             | 口               | 士            | 土  | 士            | 士        | 世        | $\Box$   |           |        |  |
|                 | $\vdash$        | 5        | H                   | 44             | ++           | ╁┦          | ₩                   | $\dashv$  |              | 54<br>55 | Н                      | $\vdash$           | $\dashv$           | +        | $\downarrow$ | u               | $\sqcup$  | Н         |      |              | 104<br>105      | $\Box$          | 4            | 7  | 丰            | L        |          | П        | $\Box$    | l      |  |
|                 |                 | 6        | V                   | The            | 廿            | T           | 口                   | 1         |              | 56       | H                      | 寸                  | 士                  | 十        | +            | $\vdash$        | H         | Н         |      | $\vdash$     | 105             |                 | 十            | +  | 十            | +        | H        | Н        | Н         |        |  |
|                 |                 | 7        | K                   | W              | 耳            | $\Box$      | $\Box$              | $\exists$ |              | 57       | $\Box$                 | 口                  | ユ                  | 工        | 工            |                 |           | 口         |      |              | 107             | 口               | #            | 土  | 土            | 上        | Ħ        |          |           | j      |  |
|                 | -               | 8        | <b>X</b>            |                | ++           | ++          | H                   | $\dashv$  |              | 58<br>59 | Н                      | ⊣                  | +                  | +        | ╀            | $\vdash$        | $\vdash$  | Н         |      | $\vdash$     | 108<br>109      | ₩               | +            | +  | $\downarrow$ | F        |          |          | $\square$ | ĺ      |  |
|                 |                 | 10       | Z                   | V W            | 廿            | 世           | 口                   | ゴ         |              | 60       |                        | 口                  | コ                  | 士        | 士            | U               |           | H         |      | H            | 110             |                 | 十            | +  | 十            | 十        | H        | Н        | $\vdash$  | •      |  |
|                 | $\vdash$        | 11       | 4                   | <b>XX</b>      | $\prod$      | $\bot$      | $\Box$              | $\exists$ |              | 61       | $\Box$                 | 耳                  | コ                  | I        | 厂            | $\Box$          |           | 口         |      |              | 111             | 口               | ユ            | #  | 丰            | 二        |          |          |           | 1      |  |
|                 |                 | 13       | V                   | Vo             | ++           | ++          | H                   | $\dashv$  |              | 62<br>63 | H                      | $\dashv$           | +                  | +        | ╀            | ╢               | H         | Н         |      | H            | 112<br>113      | ┦               | +            | +  | +            | ╀        | $\vdash$ | Н        | H         | ·<br>  |  |
|                 |                 | 14       | 図                   | ŽŽ.            | 耳            | 口           | 口                   | コ         |              | 64       |                        | コ                  | ightharpoons       | 土        | 上            | Ħ               | U         | 口         |      |              | 114             | $\Box$          | $\pm$        | +  | +            | $\vdash$ | H        | Н        | $\vdash$  |        |  |
| -               | $\vdash$        | 15<br>16 | 14                  | 44             | ┿            | 44          | H                   | 4         |              | 65<br>66 | $\bar{\vdash}$         | $\overline{+}$     | 4                  | 4        | L            | $\square$       | $\Box$    | П         | 1    |              | 115             | П               | 7            | 工  | 丰            | ⇇        |          | 口        |           |        |  |
| •               |                 | 17       | V                   | 1              | 士            | +           | H                   | $\dashv$  | $\vdash$     | 67       | -                      | 十                  | 十                  | 十        | ╁            | Н               | Н         | Н         | 1    |              | 116<br>117      | ⊢┼              | +            | +  | +            | ╀        | $\vdash$ | $\vdash$ | Н         |        |  |
|                 | $\Box$          | 18       |                     | <u> 74</u>     | II           | 口           | $\Box$              | コ         |              | 68       | 口                      | コ                  | ユ                  | 工        |              | 口               |           | 口         | ٠. ا |              | 118             | 口               | 士            | 土  | 土            | 上        | U        |          |           |        |  |
|                 | -               | <b>€</b> | H                   | Y = 1          | ++           | ++          | H                   | $\dashv$  | $\vdash$     | 69<br>70 | $\vdash$               | $\dashv$           | +                  | +        | ╀            | $\vdash \vdash$ | $\vdash$  | Н         |      | Н            | 119<br>120      | $\Box$          | $\dashv$     | 7  | Ţ            | $\Box$   | $\Box$   | П        | $\Box$    |        |  |
|                 | 口               | 21       | 口                   | V              | 苁            | 力           | 口                   | コ         |              | 71       |                        | 士                  | 士                  | 士        | 世            | U               | H         | H         |      |              | 121             | H               | +            | 十  | 十            | ╀        | Н        | $\vdash$ | $\dashv$  | i<br>I |  |
|                 | $\vdash$        | 22 23    | ${f H}$             | 1              | ┼┼           | 41          | H                   | $\exists$ |              | 72<br>73 | $\Box$                 | $\exists$          | 7                  | 工        | L            | П               | $\Box$    | 口         |      |              | 122             | 口               | 工            | I  | 工            | 二        |          | 口        | コ         |        |  |
|                 |                 | 24       |                     | 1              | ++           | ++          | 一                   | $\dashv$  | $\vdash$     | 74       | $\vdash$               | $\dashv$           | +                  | +        | ╁            | Н               | Н         | H         | 1    | _            | 123<br>124      | $\vdash \vdash$ | +            | +  | +            | ╀        | Н        | Н        | H         |        |  |
|                 | $\Box$          | 25       |                     | $\Box$         | $\Box$       | 口           | 口                   | コ         |              | 75       | 口                      | コ                  | ユ                  | 工        | 口            | 口               |           |           | Ì    |              | 125             | 口               | 士            | 士  | 士            |          | Н        | H        | 4         |        |  |
|                 | $\vdash$        | 26<br>27 | ${\mathbb H}$       | ++-            | ┼┼           | ╂┤          | $\dashv$            | $\dashv$  | $\vdash$     | 76<br>77 | H                      | $\dashv$           | +                  | +        | $\perp$      | П               | $\square$ | $\Box$    |      |              | 126             | 口               | Į            | Ţ  | 丰            | $\Box$   |          | 口        |           |        |  |
|                 |                 | 28       |                     | 士士             | 廿            | +           | 口                   | $\exists$ |              | 78       | $\dashv$               | $\dashv$           | +                  | +        | ╀            | Н               | Н         | Н         |      |              | 127<br>128      | $\vdash \vdash$ | +            | ╀  | ┿            | $\vdash$ | Н        | H        | $\dashv$  |        |  |
|                 | $\Box$          | 29<br>30 | П                   | $\prod$        | 耳            | П           | 耳                   | $\exists$ |              | 79       | 口                      | ユ                  | ユ                  | 丰        |              | 口               |           |           |      |              | 129             |                 | 士            | 土  | 土            |          | $\Box$   |          | 7         |        |  |
|                 | <del>  </del>   | 31       | H                   | ++-            | <del> </del> | ++          | $\vdash$            | $\dashv$  |              | 80<br>81 | $\dashv$               | $\dashv$           | +                  | +        | ╀┦           | Н               | H         | Н         |      | $\dashv$     | 130<br>131      | $\Box$          | 4            | 7  | $\perp$      | $\Box$   |          | П        | $\Box$    |        |  |
|                 | $\Box$          | 32       | 口                   | 工              | 耳            | 口           | 二                   | ゴ         |              | 82       | 丁                      | T                  | $\pm$              | 士        | 世            | H               | H         | $\forall$ |      |              | 132             | $\vdash$        | +            | 十  | 十            | $\vdash$ | Н        | Н        | $\dashv$  | •      |  |
|                 | $\vdash$        | 33<br>34 | Н                   | +              | ╁┼           | $\dashv$    | 1                   | $\exists$ |              | 83       | $\dashv$               | 7                  | 7                  | 工        | $\Box$       |                 | $\Box$    | П         |      |              | 133             | $\Box$          | 7            | 工  | 工            | 口        |          | 口        |           |        |  |
|                 |                 | 35       |                     | ++             | ++           | ++          | 一十                  | $\dashv$  | -            | 84<br>85 | $\dashv$               | +                  | +                  | +        | ₩            | ┦               | H         | Н         |      |              | 134<br>135      | ┝┼              | +            | +  | +            | L        | Н        | H        | $\bar{+}$ |        |  |
| •               | $\Box$          | 36       | П                   | 工工             | 耳            | 口           | 口                   | ゴ         |              | 86       | コ                      | 士                  | $\downarrow$       | 土        | U            | U               |           |           |      |              | 136             |                 | 士            | +  | +            | $\vdash$ | Н        | H        | $\dashv$  |        |  |
|                 | $\vdash$        | 37<br>38 | Н                   | ++             | ++           | +-          | 1                   | -         |              | 87<br>88 | $\bar{\boldsymbol{+}}$ | 4                  | 7                  | 工        | $\Box$       | $\Box$          | $\Box$    | П         |      |              | 137             | $\Box$          | 7            | 工  | 工            | $\Box$   |          | 口        | $\exists$ |        |  |
|                 |                 | 39       |                     | 11             | 廿            | $\Box$      | 士                   | _         |              | 89       | 寸                      | +                  | 十                  | 十        | ╁┤           | H               | $\vdash$  | Н         |      | -            | 138<br>139      | ├┼              | +            | ╁  | ┿            | ╀╌       | Н        | Н        | $\dashv$  |        |  |
|                 | $\Box$          | 40       | П                   | #              | II           | Д           | 耳                   | 口         |              | 90       | コ                      | ユ                  | ユ                  | 工        | $\Box$       | 口               |           | 口         |      |              | 140             |                 | 士            | 土  | 土            | 上        | U        | $\Box$   |           |        |  |
|                 | ╌┤              | 41       | H                   | ++             | ┼┼           | ++          | $\dashv$            | $\dashv$  | $\vdash$     | 91       |                        | +                  | +                  | +        | arpropto     | Н               | Н         | Н         |      |              | 141             | $\Box$          | 4            | Ţ  | T            |          |          |          | $\Box$    | •      |  |
| •               |                 | 43       | 口                   | #              | 苁            | 口           | コ                   | コ         |              | 93       |                        | コ                  | 士                  | 士        | $\Box$       |                 |           | H         | -    |              | 143             | $\vdash$        | +            | 十  | 十            | ╂┥       | Н        | $\dashv$ | $\dashv$  |        |  |
|                 |                 | 44<br>45 | H                   |                | $\dashv +$   | $\square$   | $\overline{+}$      | 7         |              | 94<br>95 | $\dashv$               | 7                  | 丰                  | 工        |              | 口               | $\Box$    | 口         |      |              | 144             | $\Box$          | 丰            | 丰  | 二            | 口        | 口        | 彐        | コ         |        |  |
|                 |                 | 46       | 廿                   | 廿              | 廿            | +           | 士                   | $\dashv$  | -            | 96       | +                      | 十                  | 十                  | 十        | Н            | ┝┥              | $\dashv$  | H         | 1    |              | 145             | ┝┼              | +            | +  | ╀            | $\vdash$ | Н        | $\dashv$ | $\dashv$  |        |  |
|                 |                 | 47       | $\Box$              | 1              | 耳            | 耳           | ユ                   | コ         |              | 97       | コ                      | ユ                  | 工                  | 丰        | 口            | 口               | 口         |           | Ì    |              | 147             |                 | 士            | 士  | 世            | $\Box$   | H        |          | $\exists$ |        |  |
|                 |                 | 48       | $\vdash \downarrow$ | ++-            | ╀┼           | ++          | $\dashv$            | $\dashv$  | -            | 98<br>99 | +                      | +                  | +                  | +        | $\dashv$     | Н               | $\dashv$  | H         | . }  |              | 148<br>149      | $\Box$          | 7            | Ŧ  | L            | $\Box$   | $\Box$   | $\Box$   | コ         | I      |  |
|                 |                 | 50       |                     | 土上             | 旦            | 廿           | 士                   | 1         |              | 100      | コ                      | 士                  | 士                  | 十        | H            | H               | $\dashv$  | Н         | ŀ    | $\dashv$     | 150             | +               | +            | ╁  | ╁╌           | Н        | Н        | -        | ᅱ         | ı      |  |
|                 |                 |          |                     |                |              |             |                     | _         |              |          |                        |                    |                    | _        | _            |                 | -         |           |      |              |                 | _               | _            |    |              | _        |          |          |           |        |  |